

National Library of Medicine - Medical Subject Headings

2008 MeSH

MeSH Supplementary Concept Data

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Name of Substance	coenzyme Q10
Record Type	C
Registry Number	303-98-0
Related Number	27696-12-4 (ion(1-)(all-E)-isomer)
Related Number	40819-90-7 ((Z,Z,Z,Z,Z,E,E,E)-isomer)
Entry Term	2,3-dimethoxy-5-methyl-6-decaprenylbenzoquinone
Entry Term	CoQ 10
Entry Term	CoQ10
Entry Term	coenzyme Q10, (Z,Z,Z,Z,Z,E,E,E)-isomer
Entry Term	coenzyme Q10, ion (1-), (all-E)-isomer
Entry Term	ubidecarenone
Entry Term	ubiquinone 50
Entry Term	ubiquinone Q10
Entry Term	ubisemiquinone
Entry Term	ubisemiquinone radical
Heading Mapped to	Coenzymes
Heading Mapped to	Ubiquinone/*analogs & derivatives
Indexing Information	Hydroxymethylglutaryl-CoA Reductase Inhibitors
Indexing Information	Electron Transport Chain Complex Proteins
Source	Biochem Biophys Res Commun 1980;93(2):409
Source	Biochim Biophys Acta 462:501;1977
Source	Biokhimiia 1979;44(10):1884
Source	J Biol Chem 1980;255(8):3278
Pharm. Action	Vitamins

Frequency	1294
Note	Ubiquinone ring with a chain of 10 isoprene units; redox equilibrium with ubiquinol serving in mitochondrial inner membrane to transfer electrons; presence during reconstitution of acetylcholine receptor into phospholipid vesicles yields vesicles active in catalyzing carbamylcholine-sensitive Na ⁺ flux; RN refers to (all-E)-isomer; coenzyme Q10 depletion has been noted with use of statins
Date of Entry	19800715
Revision Date	20070611
Unique ID	C024989

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